

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
21 July 2005 (21.07.2005)

PCT

(10) International Publication Number
WO 2005/066551 A1

(51) International Patent Classification⁷: F24H 1/20,
A47J 27/21

Michael, [GB/GB]; 103 Barkhill Road, Vicars Cross, CHESTER Cheshire CH3 5JH (GB). COLLINS, John [GB/GB]; 152 Newry Park, CHESTER Cheshire CH2 2BE (GB). ROWLEY, Andrew [GB/GB]; 24 Baddiley Close, Ravensmoor, NANTWICH Cheshire CW5 8PU (GB).

(21) International Application Number:

PCT/GB2004/005144

(74) Agents: PALMER, Jonathan, Richard et al.; Boult Wade Tennant, Verulam Gardens, 70 Gray's Inn Road, London WC1X 8BT (GB).

(22) International Filing Date: 7 December 2004 (07.12.2004)

(25) Filing Language: English

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:
0400206.9 7 January 2004 (07.01.2004) GB

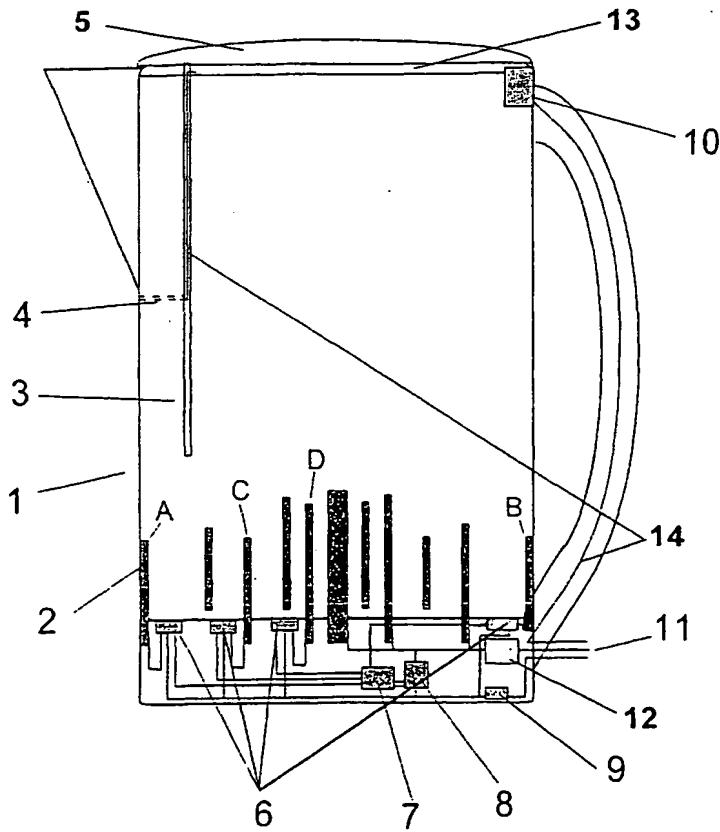
(71) Applicant (for all designated States except US): C-TECH INNOVATION LIMITED [GB/GB]; Capenhurst Technology Park, CHESTER Cheshire CH1 6EH (GB).

(72) Inventors; and
(75) Inventors/Applicants (for US only): HARRISON,

[Continued on next page]

(54) Title: LIQUID HEATING APPARATUS AND METHOD

WO 2005/066551 A1



(57) Abstract: The invention relates to an apparatus for heating an electrically conductive fluid, such as potable water, and to a method of heating the same. The heating apparatus includes a plurality of electrodes (2) in an array, and a controller (7) for selectively energising the plurality of electrodes (2), in different combinations, to thereby adjust the electrical resistance observed across the electrode array, in order to maximise the current drawn by the apparatus.